DIGITAL LOGIC, LOGI-TRAN FOUR PN-5084, TRAINER, DEVICE 6F12

TRAINING CATEGORY:

BASIC SCIENCE (Computer)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 6F12 is unclassified.

INTENDED USE:

For classroom training by demonstrating digital logic functions and providing students practice in the solving of digital logic problems.

FUNCTIONAL DESCRIPTION:

Device 6F12 is a compact portable logic trainer designed specifically for classroom use. The student using the trainer becomes familiar with various logic functions by interconnecting the logic elements and operating appropriate switches. A better understanding of Boolean algebra and digital logic theory is gained by using the trainer to solve digital logic problems and work exercises.

The trainer logic system contains an indicator panel with ten (10) latching switches, two (2) monetary switches, ten (10) indicator lamps for proving Boolean expressions, start and stop switches, and an on/off switch. Located directly above is the logic panel with 214 inputs and 170 outputs.

The logic circuitry consists of ten (10) universal flip-flops, four (4) negative AND/positive OR gates, two (2) negative OR/positive AND gates, 40 two input negative NAND/NOR, and a free running unijunction relaxation oscillator with synchronized manual and logic controlled start/stop controls, and a four (4) variable speed clock (Hz, 1KHz, 50 KHz, and single step). An assortment of fifty (50) connector leads is provided.

PHYSICAL INFORMATION:

The trainer is 7" High, 20" Wide, and 16" Deep and weighs 10 lbs.

INSTALLATION AREA:

Desk or Table Top

POWER REQUIREMENTS:

110 Volts, 60 Hz, 1 ampere maximum

PUBLICATIONS FURNISHED:

Experiment Digital Logic Manual. (FABRITEK Commercial Manual -will not be assigned an NTEC Publication Number).

PERSONNEL:

Instructors: One (1) qualified to teach digital logic theory.

Trainees: Up to Three (3)

CONTRACT IDENTIFICATION:

Purchased from Fabri-Tek Inc., Minneapolis, MN under NAVTRASYSCEN Purchase Order No. N65928-70-F-0115, Fabri-Tek Part No. 5084.

LOCAL STOCK NUMBER:

6910-LL-C00-3590